

The Ljubljana bio-diesel experience: difficulties to face and potential to develop

Roman Jakič, city councillor



Biodiesel in Ljubljana – a well-to-wheel project:

- raw material and by-products (AIS)**
- biodiesel production optimisation and by-products (Teol, Sava → Pinus)**
- biodiesel demonstration use (LPP, FME)**
- biodiesel large scale deployment and awareness rising on alternative fuels (City of Ljubljana, REC CEE)**



Difficulties to face:

- national legislation

- **tax excise exemption adopted for the mixture up to 25% or 100% biodiesel**
- **The Rules on the content of biofuels in the motor vehicle fuels adopted in 2005**
- **Decree on the promotion of the use of biofuels in motor vehicle fuels still in preparation.**
- **Use of alternative fuels in transport - still a field to be developed (better achievements in alternative use for electricity production and cogeneration)**



Difficulties to face:

- raw material provision: not enough domestic production of raw material → partial import still needed
- domestic production to be developed, optimised
- biodiesel price competitiveness still low



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Difficulties to face:

- EU level:

- what is a bio-fuel – standards?
- vehicles' manufacturers - guarantee issue



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Potential to develop:

- biodiesel crops (mainly rape seeds) – opportunities also for slovene farmers
- use of by-products in animal feed
- cleaner propulsion (test of FME have shown that with carefully optimized timing of the pump the harmful emission of NOx, smoke, HC and CO can be reduced essentially by keeping other engine characteristics within acceptable limits)
- lower dependency on import
- job opportunities
- 2nd generation biodiesel



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Thank you for your attention!

**Roman Jakič, city councilor
President of International Relations Committee**

roman.jakic@ultra.si

